

SOLAR RADIO NOISE STORM AT 150.9 MHZ

FROM NANÇAY RADIOHELIOGRAPH

DECEMBER 2012

| | HELIOPHYSICS POSITIONS MEAN VALUES ¹ | | IMP ² | OBSERVING TIME ³ | |
|-----------|--|-------|------------------|-----------------------------|---------|
| DAY | E-W | S-N | | START(UT) | END(UT) |
| 01/12/12* | -0.51 | -0.12 | I | 08H12 E | 15H10 D |
| 01/12/12* | +0.29 | +0.24 | I | 08H12 E | 15H10 D |
| 03/12/12* | +0.74 | +0.23 | I | 08H13 E | 15H11 D |
| 06/12/12* | +0.95 | +0.23 | II | 08H31 E | 15H12 D |
| 09/12/12* | -0.17 | +0.17 | II | 08H15 E | 15H13 D |
| 10/12/12* | +0.12 | +0.35 | I | 10H15 | 15H14 D |
| 12/12/12* | +0.28 | +0.58 | I | 08H16 E | 11H04 |
| 12/12/12* | +0.41 | +0.34 | I | 12H49 | 15H15 D |
| 13/12/12* | +0.27 | +0.29 | II | 08H17 E | 15H15 D |
| 14/12/12* | +0.52 | +0.51 | I | 08H18 E | 15H16 D |
| 18/12/12* | -0.43 | -0.07 | II | 08H22 E | 15H18 D |
| 19/12/12* | -0.33 | +0.02 | II | 08H20 E | 15H18 D |
| 20/12/12* | +0.12 | +0.08 | II | 08H21 E | 15H19 D |
| 21/12/12* | +0.19 | +0.13 | II | 08H21 E | 15H19 D |
| 22/12/12* | +0.60 | +0.30 | I | 08H22 E | 12H24 |
| 25/12/12* | +0.23 | +0.28 | I | 08H24 E | 15H21 D |
| 27/12/12* | -1.37 | -0.40 | I | 10H41 | 13H27 |

¹ POSITIVE E-W AND S-N COORDINATES CORRESPOND TO THE N-W QUADRANT

² IMP1: FLUX<5 SFU IMP2: 5<FLUX < 20 SFU IMP3: 20<FLUX <100 SFU

IMP4: 100< FLUX <300 SFU IMP5> 300 SFU

³ E NOISE STORM IN PROGRESS AT THE BEGINNING OF THE NANÇAY OBSERVATIONS

D NOISE STORM IN PROGRESS AT THE END OF THE NANÇAY OBSERVATIONS

**SOLAR RADIO NOISE STORM AT 327 MHZ
FROM NANÇAY RADIOHELIOGRAPH**

DECEMBER 2012

| | HELIOPHYSICS POSITIONS MEAN VALUES ¹ | | IMP ² | OBSERVING TIME ³ | |
|----------|--|-------|------------------|-----------------------------|---------|
| DAY | E-W | S-N | | START(UT) | END(UT) |
| 01/12/12 | -0.47 | -0.02 | I | 08H12 E | 15H10 D |
| 01/12/12 | +0.20 | +0.13 | I | 08H12 E | 15H10 D |
| 01/12/12 | +1.17 | +0.28 | I | 08H12 E | 15H10 D |
| 02/12/12 | -0.25 | +0.11 | I | 08H36 E | 15H11 D |
| 02/12/12 | +0.43 | +0.19 | I | 08H36 E | 15H11 D |
| 03/12/12 | +0.03 | +0.15 | I | 08H13 E | 15H11 D |
| 03/12/12 | +0.68 | +0.16 | I | 08H13 E | 15H11 D |
| 04/12/12 | +0.37 | +0.08 | I | 08H28 E | 15H11 D |
| 09/12/12 | -0.17 | +0.25 | I | 08H15 E | 15H13 D |
| 10/12/12 | +0.09 | +0.19 | I | 08H16 E | 15H14 D |
| 13/12/12 | +0.29 | +0.30 | I | 08H17 E | 15H15 D |
| 13/12/12 | +0.54 | +0.33 | I | 08H17 E | 15H15 D |
| 14/12/12 | +0.54 | +0.37 | I | 08H18 E | 15H16 D |
| 18/12/12 | -0.80 | -0.08 | I | 08H22 E | 15H18 D |
| 18/12/12 | -0.39 | -0.19 | I | 08H22 E | 15H18 D |
| 19/12/12 | -0.25 | -0.13 | II | 08H20 E | 15H18 D |
| 20/12/12 | +0.14 | -0.13 | I | 08H21 E | 15H19 D |
| 23/12/12 | +0.77 | +0.02 | I | 08H22 E | 15H20 D |
| 25/12/12 | +0.25 | +0.25 | I | 08H24 E | 15H21 D |
| 26/12/12 | +0.55 | +0.27 | I | 08H23 E | 15H21 D |
| 30/12/12 | -0.69 | +0.06 | I | 08H24 E | 15H24 D |
| 31/12/12 | -1.03 | +0.13 | I | 08H27 E | 15H24 D |
| 31/12/12 | -0.13 | +0.56 | I | 08H27 E | 15H24 D |

15, 16, 17 December 2012 : NO DATA

OTHERS DAYS: NO DETECTABLE NOISE STORM

- For the days marked by an asterisk, intense ionospheric gravity waves are observed during the whole day. Without a mode detailed analysis leadind to increase uncertainties in the deviation , the positions which are indicated are estimated within 0.2 R

** Following a large burst

*** importance not well determined due to the proximity off the very strong other source
**** no flux measurements available